No.



9600064

THE UNITED STAYIES OF ANTERICAL

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Pioneer Hi-Bred International, Inc.

MOTERS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN LICING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY CTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'9481'

In Testimonn Murrert, I have hereunto set my hand and caused the seal of the Hunt Buriety Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of March, in the year of our Lord two thousand.

Altest:

Am morie.

Commissioner Plant Variety Protection Off Ariculture

AGRICULTURAL MARKETING SERVICE		The following statements are m	FORM APPROVED - OMB NO. 0581-00 ade in accordance with the Privacy Act
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFIC	Έ		
APPLICATION FOR PLANT VARIETY PROTECTION C (Instructions and information collection burden statemen		Application is required in order certificate is to be Issued (7 U.S. until certificate is Issued (7 U.S.	to determine if a plant variety protection.C. 2421). Information is held confidenti C. 2426).
NAME OF APPLICANT(S) (as it is to appear on the Certificate)	t on reverse;	2. TEMPORARY DESIGNATION OR	
·		EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International, Inc.	• .		9481
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	 	5. TELEPHONE (include area code)	FAR OFFICIAL LOS
700 Capital Square			FOR OFFICIAL USE ONLY
400 Locust St.		515/270-3582	9600064
Des Moines, IA 50309			
		8. FAX (include area code)	DATE
		515/253-2288	[1]
7. GENUS AND SPECIES NAME			* NOV 22, 1995
	. FAMILY NAME (Botal		FLING AND EXAMINATION FEE.
Glycine Max	Leguminos	sae	\$ · 2450 ==
9. CROP KIND NAME (Common name)			DATE
			The second
Soybean			A NOV 22 1495
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION COrporation	N (corporation, partners	hip, association, etc.) (Common name)	E .
11. IF INCORPORATED, GIVE STATE OF INCORPORATION			V!
Iowa		12. DATE OF INCORPORATION	E DATE
		1926	18 7 18 99
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE			14. TELEPHONE (include free code)
	Mike Roth (= =	515/270-3582
	700 Capital	-	
	400 Locust		16. FAX (include area code)
Jointston, IX Join-1004	Des Moines,	IA 30309	515/253-2288
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instrue. 区 Exhibit A. Origin and Breading History of the Variety b. 区 Exhibit B. Statement of Distinctness c. 区 Exhibit C. Objective Description of the Variety	ictions on reverse)		
d. 🔯 Exhibit D. Additional Description of the Variety			
e. 🔯 Exhibit E. Statement of the Basis of the Applicant's Ownership			
1. Voucher Sample (2,500 viable untreated seeds or, for tuber propagated val	rieties verification that ti	save culture will be deposited and maintain	ed in a public repository)
g. LSI Filing and Examination Fee (\$2,450), made payable to "Treasurer of the Un	vited States" (Mell to PV	(PO)	
7. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARI TYPES III "yes," answer items 18 and 19 below!	OX) NO (If "no," go	A CLASS OF CERTIFIED SEED? See Section Section See Section Section	on 83(a) of the Plant Variety Protection Act)?
8. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO GENERATIONS?	O NUMBER OF 19.	IF "YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION BEYOND BREEDER SEED?
☐ YES ☐ NO		FOUNDATION REGISTER	
10. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASE TYPES #1 "yes," give names of countries and dates) NO	ED, USED, OFFERED FO	R SALE, OR MARKETED IN THE U.S. OR C	OTHER COUNTRIES?
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furni applicable, or for a tuber propagated variety a tissue culture will be decounted in a particular to a propagated variety at tissue culture will be decounted in a particular tissue culture will be a particular tissue culture will be decounted in a particular tissue culture will be a particular tissue culture will be applied to the particular tissue culture will be a particular tissue cultu	ished with application ar	nd Will be replenished upon request in acco	reference with such carulations as may be
The undersigned applicantial injury the ownerial of this assuration	conc repository and mad	nterned for the duration of the certificate.	
	ur Amerik Lintaction Vo	t.	atinct, uniform, and stable as required in
Applicant(s) islars) informed that false representation herein can jeopardize protection	n and result in penalties.		
IGNATURE OF APPEICANT (ON THE PAI)	SIGNATUR	E OF APPLICANT (Owner(a))	
N. John Mace III	Ì		
AME (Please print or type)	NAME (Plea	se print or type)	<u> </u>
V			
D. John Grace III			
D. John Grace III	CABACITY	OR TITLE	In 174
MACHY OF THE	CAPACITY	OR TITLE	DATE
PACITY OR TITLE Courses Becomes Courses	CAPACITY		OATE nformation collection burden statement)

Exhibit A: Origin and Breeding History

Breeding History of 9481 Soybean

1990 (Summer) Original cross made at Union City, TN.

Cross number was PX 60157. Parentage = 4667-09/A47415. 4667-09 = 4280/Fayette.

A4715 = A5474//Douglas/A3127.

1990-91 (Winter) F1 plants grown in winter nursery at Ponce, Puerto Rico in rows 6137 and 6138. Plants were individually threshed. F2's derived from single plants were replanted at Puerto Rico in rows 6925 to 6928. These rows were harvested via modified single seed descent to produce the F3.

1991 (Summer) F3 bulks planted in Advanced Populations nursery at Union City, TN in rows 44217-44230. That fall, 200 single F4 plants were pulled from these rows..

1991-92 (Winter) 199 short row increase plots for the plants from PX 60157 were grown in Puerto Rico winter nursery. This seed increase used to make jump from single plant to rod-row yield tests.

1992 (Summer) PX60157-299 entered as entry 31 in the UNC420 prelim test which was grown as 3 replications at 2 locations.

1992-93 (Winter) 200 seeds of PX60157-299 and 11 other selections from this same cross were sent to Puerto Rico to produce single purification plants for that summer Breeder's seed.

1993 (Summer) PX60157-299 entered as entry 36 in the A4L advanced test which was grown at 12 locations over a wide area. 90 individual Breeder's seed purification rows were harvested.

1993-94 (Winter) PX60157-299 was recommended for advancement and named XB49C.
219 pounds of seed from the Breeder's seed purification rows was sent to Upala, Costa Rica for a bulk seed increase of 5 acres.

1994 (Summer) XB49C was entered as entry 11 in the A4L advanced test which was grown at 16 locations over a wide area. 9481 has been shown to be uniform and stable for all plant traits from generation to generation with no evidence of variants. 101 acres of Parent Seed increase for XB49C was grown in Mt. Vernon, IN and produced 4267 bushels.

1995 9481 was named in 1995 due to its yield potential and resistance to cyst nematode races 3 and 14.

Exhibit B: Novelty Statement

9481 is most similar to CX469c, Delsoy 4710, Pyramid, S46-44, S48-84, TN4-86, and TN4-94. These varieties are similar in late maturity, indeterminate growth habit and Soybean Cyst nematode resistance. However, 9481 has white flowers while the others in the above grouping have purple flowers.

A4715 and Avery have white flowers like 9481, in addition to indeterminate growth habit and nematode resistance. Avery is 5 days later than 9481 and has brown pods. 9481 is 5 inches taller than A4715. (Table 1)

EXHIBIT (Soybean

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION VARIETY NAME
Pioneer Hi-Bred International, Inc.	9481
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Coo 700 Capital Square 400 Locust Street	FOR OFFICIAL USE ONLY PVPO NUMBER
Des Moines, IA 50309	9600064
Starred characters * are considered fundamental to an adequate when information is available.	riety in the features described below. When the number of significant digit place a zero in the first box when number is 9 or less (e.g., 0 9). uate soybean variety description. Other characters should be described
1. SEED SHAPE:	
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	T 2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)
★ 2. SEED COAT COLOR: (Mature Seed)	
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)	
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy	/'; 'Gasoy 17')
★ 4. SEED SIZE: (Mature Seed)	
1 7 Grams per 100 seeds	
5. HILUM COLOR: (Mature Seed)	
6 1 = Buff 2 = Yellow 3 = Brown 4	= Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)	
1 = Yellow 2 = Green	
7. SEED PROTEIN PEROXIDASE ACTIVITY:	
1 1 = Low 2 = High	
8. SEED PROTEIN ELECTROPHORETIC BAND:	
1 = Type A (SP1 ⁸) 2 = Type B (SP1 ^b)	
9. HYPOCOTYL COLOR:	
1 = Green only ('Evans'; 'Davis') 2 = Green with b 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Cc	pker Hampton 266A')
10. LEAFLET SHAPE:	
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)
•	

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsoy 79'; 'Gasoy 17')
	RECEIVED USDA-AMS-PVPO
12. LEAF COLOR:	OSDA-AM2-PAB0
1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Medium Green ('Corsoy 79'; 'Braxton') *95 NOV 22 P2:43
★ 13. FLOWER COLOR:	
1 = White 2 = Purple 3 =	White with purple throat
★ 14. POD COLOR:	
1 1 = Tan 2 = Brown 3 = Bla	ck
★ 15. PLANT PUBESCENCE COLOR:	
2 1 = Gray 2 = Brown (Tawny)	
16. PLANT TYPES:	
1 = Stender ('Essex'; 'Amsoy 71') 2 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amcor'; 'Braxton')
77. PLANT HABIT:	
1 = Determinate ('Gnome'; 'Braxton') 2 3 = Indeterminate ('Nebsoy'; 'Improved Pelican') 18. MATURITY GROUP:	= Semi-Determinate ('Will')
10 (/)	= I 5 = II 6 = III 7 = IV 8 = V 2 = IX 13 = X
19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible	e; 2 = Resistant)
BACTERIAL DISEASES:	
Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
★ 1 Bacterial Blight (Pseudomonas glycinea) ★ 2 Wildfire (Pseudomonas tabaci)	
FUNGAL DISEASES:	
FUNGAL DISEASES: ★ 1 Brown Spot (Septoria glycines)	
→ []	
Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0 Race 3	0 Race 4 0 Race 5 Other (Specify)
Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0 Race 3 Target Spot (Corynespora cassiicola)	
Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0 Race 3 Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshuria	
Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0 Race 3 Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurid Powdery Mildew (Microsphaera diffusa)	
Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0 Race 3 Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshuria	

19. DISEASE REACT	ION: (Enter 0 = Not Tested; 1 = Susceptible; 2	= Resistant) (Continued)	
FUNGAL DISE	ASES: (Continued)		
★ 1 Pod and S	Stem Blight <i>(Diaporthe phaseolorum</i> var; <i>sojae)</i>		,
O Purple Se	ed Stain (<i>Cercospora kikuchii</i>)		
1 Rhizoctor	nia Root Rot <i>(Rhizoctonia solani)</i>		
Phytophti	nora Rot <i>(Phytophthora megasperma</i> var. s <i>ojae)</i>		
★ 1 Race 1	1 Race 2 0 Race 3 0	–	5 0 Race 6 0 Race 7
() Race 8	O Race 9 Other (Specify)		
VIRAL DISEASE	ES:		
1 Bud Blight	(Tobacco Ringsput Virus)		
Yellow Mo	saic (Bean Yellow Mosaic Virus)		
★ 1 Cowpea M	osaic (Cowpea Chlorotic Virus)	-	
1 Pod Mottle	(Bean Pod Mottle Virus)		
★ I Seed Mottle	e (Soybean Mosaic Virus)		
NEMATODE DIS	EASES:		
Soybean C	yst Nematode (Heterodera glycines)		
★ 0 Race 1	0 Race 2 2 Race 3 0	Race 4 2 Other	(Specify) Race 14
0 Lance Nem	atode (Hoplolaimus Colombus)		
★ 0 Southern R	oot Knot Nematode (Meloidogyne incognita)		
★ 0 Northern Re	oot Knot Nematode (Meloidogyne Hapla)		
0 Peanut Room	t Knot Nematode (Meloidogyne arenaria)		
0 Reniform N	ematode (Rotylenchulus reniformis)		
OTHER DIS	SEASE NOT ON FORM (Specify):		
. I I	ESPONSES: (Enter 0 = Not Tested; 1 = Suscep	tible; 2 = Resistant)	•
Iron Chloros	is on Calcareous Soil		
Other (Special	fy)		
21. INSECT REACTION:	(Enter 0 = Not Tested; 1 = Susceptible; 2 = Re	esistant)	
101		and the state of t	
	topper (Emposees fabre)	• • • • • • • • • • • • • • • • • • • •	
Other (Specif		•	
<u> </u>			
and the second s	ARIETY MOST CLOSELY RESEMBLES THA	T SUBMITTED.	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant Shape Leaf Shape	A4715	Seed Coat Luster	A4715
	9501	Seed Size	A4715
Leaf Color Leaf Size	A4715	Seed Shape	A4715
C-0. 0125	9501	Seedling Pigmentation	A4715

FORM LMGS-470-57 (6-83)

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	ET SIZE	SEED CO	TENT	SEED SIZE G/100	96000 No.
-	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	SEEDS/ POD
9481 Submitted	128	1.9	111	Į	RECE! SDA-AM	VED SEPVIPO	23.2	17	3
A4715 Name of imilar Variety	128	1.7	101		95 NOV 22	41.2 P2:43	22.6	16	3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Exhibit D: Additional Description of Variety

In Exhibit C we have identified 9481 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle. This does not mean that we consider 9481 to be worse than other varieties of similar maturity in reaction to these challenges. Rather, we have chosen to be conservative and have identified 9481 as "susceptible".

Variety 9481 is a late group IV variety. If group IV maturities are divided into tenths, the relative maturity of 9481 is 4.8.

Isozyme information for 9481:

Exhibit E: Statement of the Basis of Applicants Ownership

Variety 9481 was originated and developed by plant breeders (U.S. nationals) from whom, by agreement, Pioneer Hi-Bred Int'l, Inc. has obtained exclusive rights to 9481. No rights to such invention, discovery or development are retained by the plant breeder or any other party.

JP Ap	plicat	PVP Application 9481 Soybean	Soybean						Formulo &	Formula for Standard Form Calculation	
									i Formala in	n otanuaru diror valcusamon	
able .	l. 7.‡	est comp	arison of 9	2481 vs. A47	75 for h	eight in in	Table 1. T-test comparison of 9481 vs. A4715 for height in inches, 1993-94 2-year analysis. Height	ils, Height		$\sum (X1-X2)^2 - (\sum X1-X2)^2/n$	"w
s defit	ned a	s the dist	ance (in c	im) from the	e soil sun	face to th	is defined as the distance (in cm) from the soil surface to the topmost pod. Plots were four 30 inch rous wide and generally 15 feet to the topmost pod.	four 30	SE diff =		
	M SMS		appioxiiiic	and approximately to teel long.	i long.		The state of the s		<u> </u>	(n) (n-1)	
									-		
YEAR	20	REP	9481 (X1)	A4715 (X2) X1-X2		(X1-X2) ²					
			height in inches	n inches							
1993	067A		47.3			100.00	1993 ANALYSIS				
	069A	-	42.0			39.69	Ave 9481 ==	40.80 inches	100	1003 Standard Breen Calante	
	070D	-	44.3			5.29	Ave A4715 =	35.60 inches	YOUT	o Standard Error Calculation	
)	021A	_	39.0			60.84	d = (Ave X1 - Ave X2)	5.20			
_	023B	_	33.5		4.5	20.25	SE diff = SQRT of	1 230	25	(36.4)*/7)	
ر	024A	_	38.0			9.00	SE off =	1113	or dillip3 =	- ;	
ر	026L	-	41.5			6.25	t = d/SE alff ==	4.672		(9)(/)	
								9			
1							Prob > t=		significant at <1% level		
ŝ		SILEA	, 100								
3		MOS.	285.0			241.32					
1	+	MEAN	40.80		5.20 ≡d	p					
	_	:: C	7	groups of individuals	ndividu	SS SS					
1007	0474	-	O CV	40.0	c	60	OLOVITATION TOOL				
	A690	-	40.7			9,5	Ave 0/81 -	AE 7E 1000h 00	*		
٦	070A	-	40.3	383		207	Ave A4715 -	40.70 INCHES	1887	1994 Standard Error Calculation:	
	0218	-	42.0		2,0	400	d = (Ave X1 - Ave X2)	40.02 II ICHES		20000	
٦	026	_	52.5			6.25	SE diff = SQRT of	0.45058	SE AIF	ff = 610.55 - ((115.1) ⁷ /22)	
ر	027B	-	54.5			42.25	SE cliff =	0.6713		M (20) (21)	
/	518K	-	52.0			81.00	t = d/SE diff =	7,794			
٦	067A	2	44.0			49.00	Of a	21			
비	021B	2	39.5			2.25	Prob > t=	0.0000 significant	int at <1% level		
븨	067A	က	44.0			49.00					
7	073A	-	20.0			25.00					
	021B	3	37.0		4.5	20.25					
	029C		39.5			49.00					
اد	067A	4	45.5			56.25					
	040G	-	51.0	45.0		36.00					
케	020C		44.0			25.00					
7	026	2	53.0			12.25					
비	029C	2	35.0			25.00					!
ادي	518K	2	53.0			169.00					
4.1	527K	-	29.0			121.00					
케	067A	လ	42.3			25.00					
	073A	- 1	45.7		1.7	2.89					
1994	ري	SUM	1006.5		-	810,35					
	-	MEAN	45.75		5.23 = c	ם					
	-	ii C	22	groups of individuals	ndividuc	왉					
					_						
-											

	-								
IOIAL	SUM	1292.1	1140.6	151.5	1051.67	1051.67 COMBINED 1993-94 ANALYSIS	NALYSIS		
	11471	/ 1 / 7	0000	-	+				
	MEAN	44.50	39.33	5.22		Ave 9481 =	44.56	44.56 inches	Combined Standard Error Colonlation
	= E	&	29 groups of individuals	adividua	ls si	Ave A4715 =	39.33	39.33 Inches	Committee Stational Calculation,
						d = (Ave X1 - Ave X2)	5.22		1051 67 (7151 572 500)
						SE diff = SQRT of	0.32046		(47/(CTCI)) - /0:101 1 1 2 3/4/5 2 2 4/5 2 2 3 4/5 2 4
						SE cliff =	0.566		 -
						t = d/SE diff =	9.228		(07) (77)
						n jo	28		The same and the s
						Prob > † =	00000	0.0000 significant at < 1% level	NO.